



Forensic Technical Services

Forensic Engineering, Architecture, Environment, Aviation and Technology Experts

HKA has over 500 technical experts across all regions of the globe. Our technical experts are specialists in their field and experienced in helping clients and their advisors resolve disputes. Whether providing expert advisory, expert determination or expert witness services, HKA occupies the unique, multi-disciplinary space that combines quantum, engineering, delay and disruption, forensic accounting and commercial damages, and government contracts. We call this capability, QED+.

Buildings

- Architecture
- Building Specialisms
- Building Structures
- Fire Engineering
- MEP
- Project Management / Construction Management

Infrastructure

- Civil Engineering
- Geotechnical
- Rail
- Ports, Harbours and Marine

Energy, Resources and Industrial

- Conventional Energy
- Industrial and Manufacturing
- Mining, Minerals and Metals
- Oil and Gas
- Project Management / Engineering Management
- Renewable Energy
- Shipping and Marine
- Utilities
- Water and Wastewater Treatment

Environment and Climate Change

- Air Quality and Noise
- Climate
- Contaminated Land and Emerging Contaminants
- Energy and Renewables
- Environmental, Social and Governance (ESG)
- Environmental Transaction
- Flooding and Drainage
- Impact Assessment
- Mining Environmental
- Pollution and Regulatory issues
- Product Stewardship
- Radiological Risks
- Waste and Water
- Wildlife Protection and Biodiversity

Aviation and Space

- Air Traffic Control and Air Traffic Management
- Airports, Airfields and Helipads
- Design, Manufacture, Production, Test and Certification (Initial Airworthiness)
- Maintenance, Engineering and Continuing Airworthiness
- Flight and Ground Operations
- Military and Civil
- Space-for-Earth
- Space-for-Space
- Space Growth and Emerging Markets

Sectors and Specialisms

- > A**
 - Accidents: engineering and construction plant
 - Acoustics
 - Active fire protection
 - Aerospace safety and security
 - Air quality (incl. dust, odour, vapours, radon)
 - Airfield operations and air traffic control
 - Airfields and airports
 - Airworthiness
 - Aquatic centres
 - Asbestos
 - Ash handling
 - Auditing and certification
 - Aviation engineering
 - Aviation operations, regulation and compliance
- > B**
 - Biomass
 - Boilers
 - Bridges
 - Building code compliance
 - Building controls
 - Building Information Modelling (BIM)
 - Building Management Systems (BMS)
 - Building performance
 - Building services systems
 - Building standards
 - Building surveying
 - Burners
- > C**
 - CCGT design, operation and maintenance
 - CDM services
 - Chemical engineering
 - Chemical industries
 - Civil engineering
 - Cladding
 - Climate impacts, adaptation and reporting
 - Coal fuel, crushing and sampling
 - Combined heat and power
 - Combined cycle gas turbine (CCGT)
 - Combustion systems
 - Commission management
 - Complex environmental risk assessment
- > D**
 - Compliance (industry standards)
 - Computational fluid dynamics
 - Concrete
 - Connection design
 - Construction accidents
 - Construction management
 - Contract administration
 - Corrosion and coatings
 - Cranes and lifting operations
 - Cyber disputes
- > E**
 - Earthworks
 - Education (schools / universities)
 - Electrical - HVDC and LV
 - Electrical accidents
 - Electrical building services engineering / MEP
 - Electrical engineering
 - Electrical networks and infrastructure
 - Electricity transmission and distribution
 - Emission control
 - Energy from waste
 - Energy storage
 - Engineering and project management
 - Environmental Impact Assessments (EIA)
 - Environmental, Social and Governance (ESG)
 - Equipment fire safety and risk engineering
 - Erection engineering
 - External works
 - Extractive industries
- > F**
 - Façades
- > G**
 - Gas processing, transmission and turbines
 - Geology and geotechnical engineering
 - Geotechnics and foundations
 - Geothermal
 - Glass, masonry and construction materials
 - Glazing
 - Government buildings
 - Ground asbestos and subsistence
- > H**
 - Health and safety
 - Healthcare
 - Heat recovery steam generators and pressure parts
 - Heavy steelwork and structures
 - Highways
 - Hot and cold water systems
 - HP gas transmission systems
 - Human performance
 - Hydro power
 - Hydroelectric
 - Hydrogen and ammonia
 - Hydrogeology
 - Hydrology and flooding
- > I**
 - Industrial
 - Industrial emissions
 - Instrumentation and control, SCADA
 - Insulation
 - Internal works
 - IT and data technology
 - IT infrastructure mobile and wireless
- > J**
 - Jackets / offshore structures
- > L**
 - Laboratory
 - Land contamination and remediation
 - Landfill
 - Liability and scope disputes
 - Lifts and escalators
 - Lighting design (internal and external)
 - Lightening protection and surge arrestors
- > M**
 - Manufacturing industries
 - Marine operations
 - Marine salvage and wreck removal
 - Masonry
 - Master mariner
 - Material corrosion and handling
 - Mechanical engineering
 - Mechanical failures
 - Mechanical handling systems
 - Mechanical plant equipment and piping systems
 - MEP and MEP QS
 - Metallurgy
 - Metals / steel production
 - Military
 - Mine planning / design / long term development
 - Minerals / ore processing
 - Mining and mining economics
 - Moving staircases / walkways
- > N**
 - Natural gas piping systems
 - Naval architect
 - New and emerging contaminants (inc. PFAS)
 - Noise and vibration
 - Nuclear and nuclear decommissioning fire engineering
- > O**
 - Odourisation systems
 - Offshore oil and gas, structures and wind
 - Oil fuel supply
 - Onshore oil and gas and wind

Sectors and Specialisms

- > P**
 - Passive fire protection
 - Pavements
 - Personal injury
 - Petrochemical plant turnkey contracts
 - Pharmaceutical manufacturing
 - Physical security
 - Piling, subsidence, instability, land reclamation
 - Pipelines
 - Piping and flushing
 - Places of worship
 - Plant performance
 - Pollution and regulatory issues
 - Ports, harbours and marine
 - Prefabrication
 - Pressure parts
 - Private Finance Initiative (PFI)
 - Process engineering
 - Process fire safety and risk engineering
 - Process risk / HAZOP / HAZID
 - Process technical safety / accident
 - Procurement
 - Product stewardship
 - Professional negligence
 - Project controls
 - Project management
 - Public health engineering
 - Public sector buildings
 - Pylons
- > Q**
 - Quality assurance / quality control
 - Quarry (design and operations)
- > R**
 - Radiological risks
 - Rail infrastructure, track and p-way
- Rail power and electrification (traction)
 - Rail safety and operations
 - Rail signalling and operations
 - Rail systems
 - Refineries
 - Refrigeration
 - Reinforced concrete structures and detailing
 - Remote Piloted Air Systems (RPAS)
 - Reservoir engineering
 - Responsible sourcing
 - Retail / commercial
 - Retaining structures
 - Rig intake and compliance / risk and compliance
 - Risk management
 - Rolling stock
 - Roofing
- > S**
 - Seismic analysis and design
 - Shaft sinking
 - Shipbuilding
 - Site investigation
 - Slope design and stabilisation
 - Slurry and water transport
 - Solar photovoltaic and thermal
 - Solar tracking control systems
 - Space-for-earth
 - Space-for-space
 - Sports and leisure
 - SPS design and operation
 - Standard of care
 - Steam boilers and turbines
 - Steel production, design and fabrication
 - Strategic Environmental Impact Assessment (SEA)
 - Structural engineering
 - Structural failures and collapses
 - Structural finite element analysis
- Structural steel frames
 - Subsea flowline and export pipeline design and installation / SURF
 - Substations / switchgear
 - Sustainable drainage
- > T**
 - Timber design
 - Tobacco manufacturing
 - Toxicology
 - Transaction decision support (excluding detailed design)
 - Transformers, electrical networks
 - Transportation technology
 - Tribology
 - Tunnelling
- > U**
 - Utilities
- > V**
 - Vehicle emissions
 - Vessel Traffic Management Systems (VTS/VTMS)
 - Vibrations
- > W**
 - Wall finishes
 - Waste management
 - Wastewater treatment
 - Wastewater, drainage and sewage collection
 - Water chemistry
 - Water supply and distribution
 - Water treatment
 - Welding / NDT
 - Well programme planning / project control
 - Wildlife protection and biodiversity
 - Wind turbines

Professional standing & recognition



Consistently ranked highly in the Global Arbitration Review (GAR) Top 100

HKA has been instructed by 100% of the GAR top 30 International Arbitration Law Firms



Top of the Who's Who Legal Construction Expert Witnesses analysis for seven consecutive years

HKA has been instructed by 83% of the leading Contentious Construction Law Firms*

*according to Chambers & Partners

Regional Contacts



Julia Humpidge
Head of FTS EMEA
juliahumpidge@hka.com
+44 20 7618 1200



Michael Griffin
Head of FTS Americas
michaelgriffin@hka.com
+1 215 205 2572



Kourosh Kayvani
Head of FTS APAC
kouroshkayvani@hka.com
+61 432 688 904